

Code No: R41045

R10**Set No. 2**

IV B.Tech I Semester Regular Examinations, December 2013
TELECOMMUNICATION SWITCHING SYSTEMS
(Electronics and Communication Engineering)

Time : 3 hours

Max. Marks: 75

Answer any Five Questions
All Questions carry equal marks

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| 1 | a) Compare the Electronic Switching with the Manual Switching. | [8] |
| | b) Explain the principles of Crossbar Switching | [7] |
| 2 | Explain in detail the Electronic space division switching | [15] |
| 3 | a) Explain the Concept of Routing? | [7] |
| | b) Explain the operation of Source routing bridge and transparent bridge | [8] |
| 4 | a) Discuss about Signaling Techniques used by SS1, SS2, SS3, SS4, SS5 and SS5bis. | [7] |
| | b) Explain about the traffic load and Grade of Service | [8] |
| 5 | a) What is the function of serial interface? Explain physical electrical and functional characteristics of the RS 232 serial interface. | [7] |
| | b) What is the necessity of data communication standards? Explain | [8] |
| 6 | a) Write short notes on Public switched data networks | [7] |
| | b) Explain the differences between circuit switching, packet switching and virtual circuit switching. | [8] |
| 7 | a) Explain the numbering and addressing formats of ISDN | [8] |
| | b) Explain the protocol architecture of ISDN | [7] |
| 8 | Write short notes on the following | |
| | a) Traditional cable networks | [5] |
| | b) LAN | [5] |
| | c) CMTS | [5] |

